

**ABSTRACT**

A method and system (i) for improving the handing over of a connection from one SGSN (I) to another, i.e. when an MS (Mobile Station) moves from one SGSN service area to another, (ii) for not interrupting the packet transmission and  
5 possible layer 3 procedures, and (iii) for optimizing the network utilization without adding complexity to SGSN. Upon an inter SGSN routing area update, the old SGSN (I) is given the role as a temporary anchor, whereas the other (new) SGSN (II) is temporarily working as a serving SGSN.